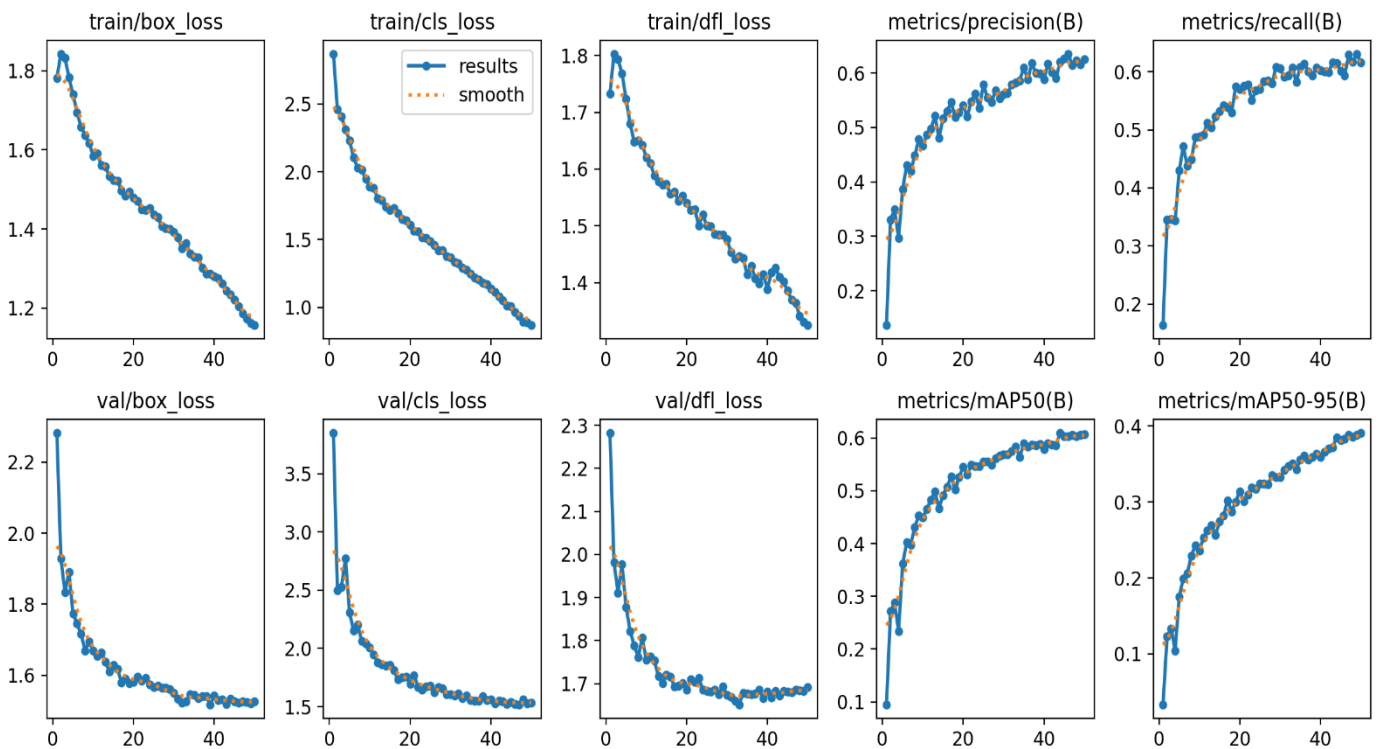
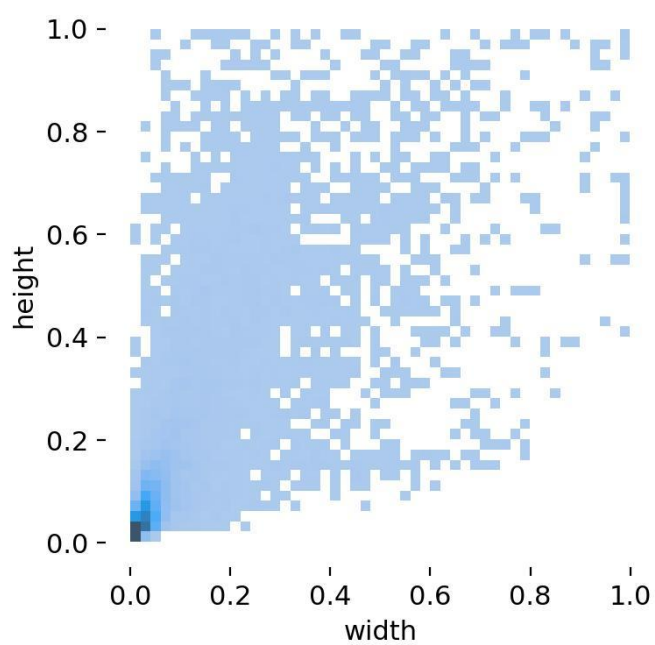
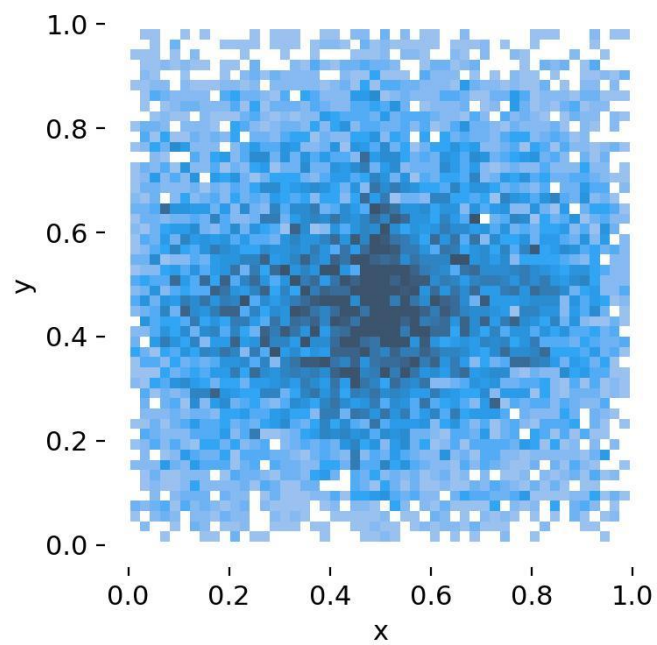
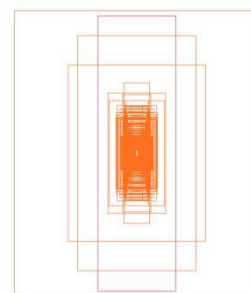
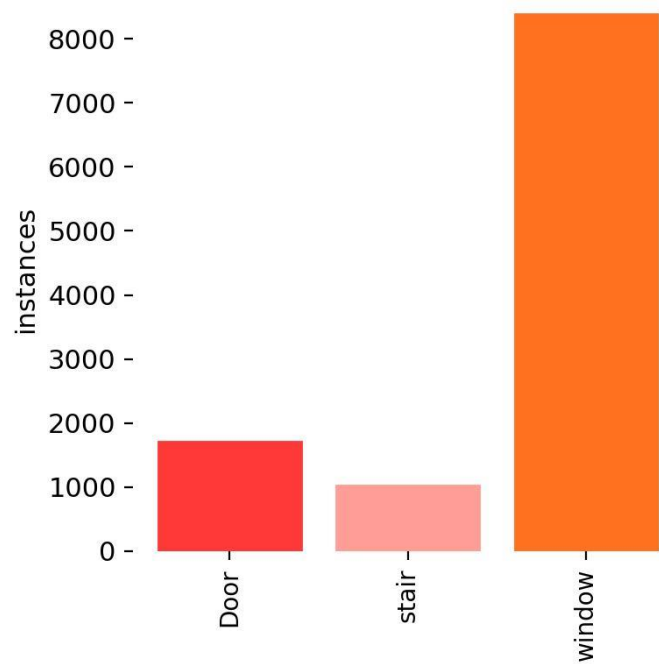


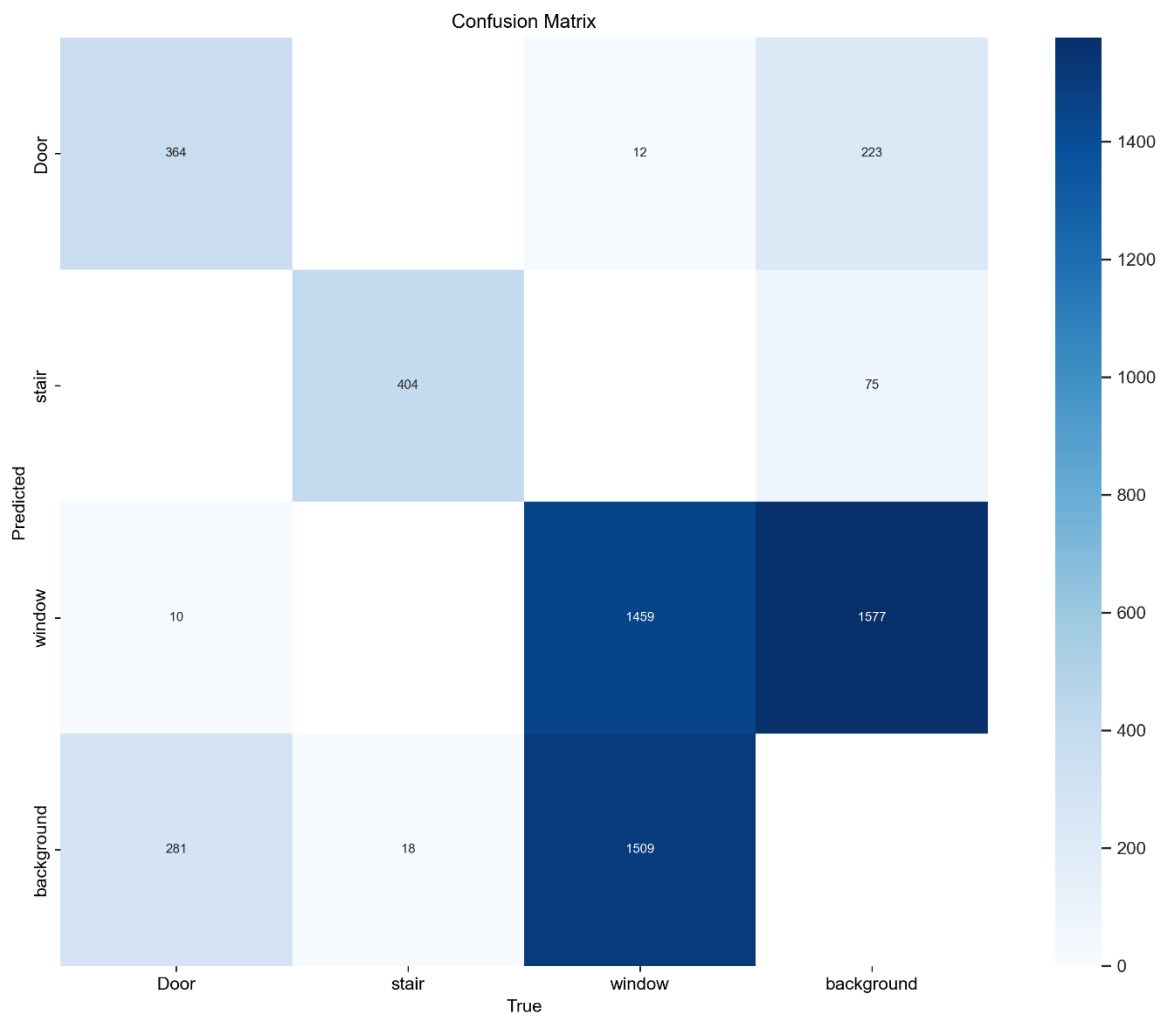
## Current Approach

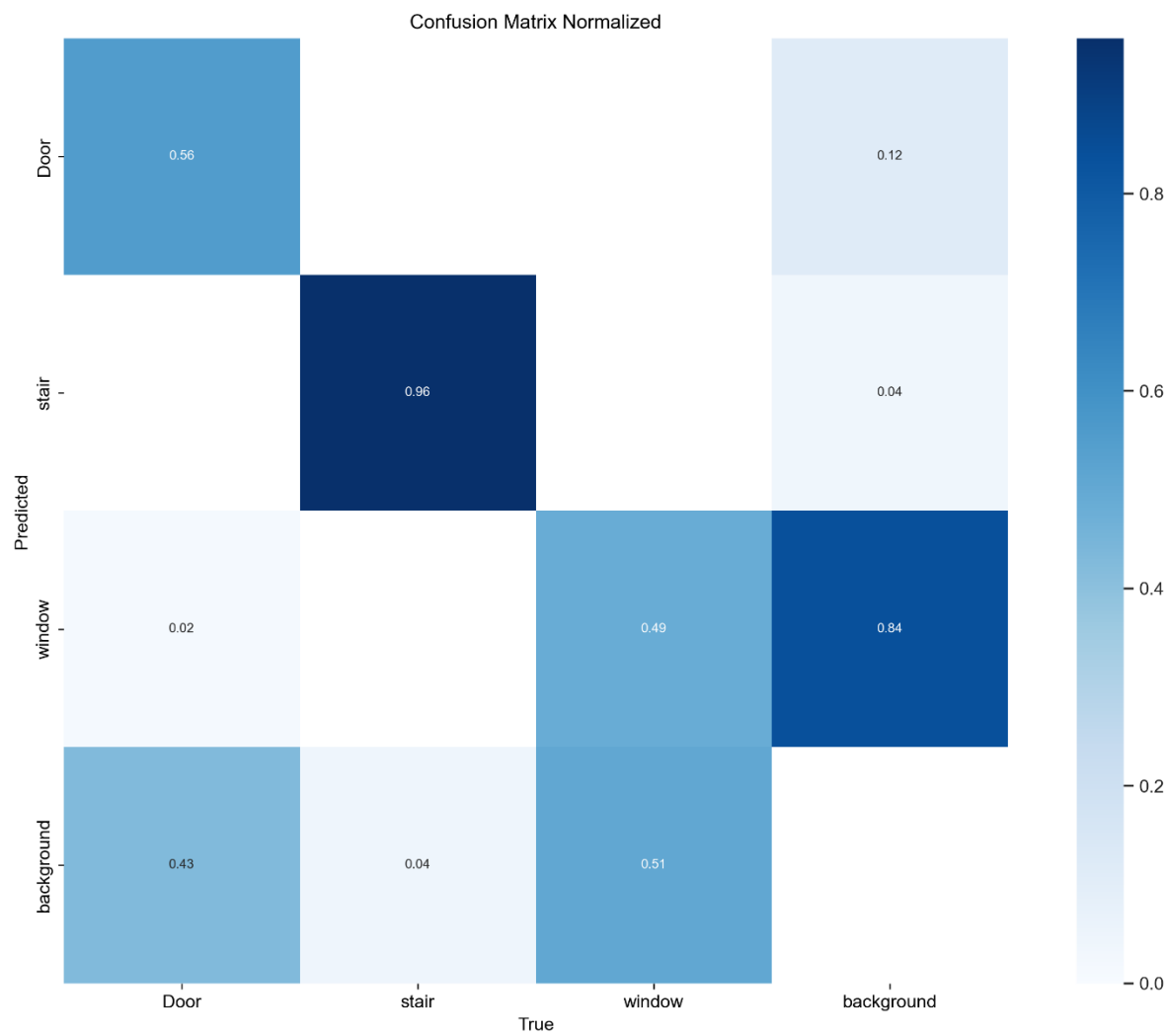
Using YOLOv8m for detecting doors, stairs, and windows in the images of buildings. The training was done on image resolution: 1280, batch size: 8 and 50 epochs. On increasing the image sizes for training or increasing the number of epochs, the memory requirements gradually increase. As well as upgrading the YOLOv8 model such as l or x (which contains more complex structure with high number of neurons). The training was also performed on 150 epochs by reducing the image sizes to 640x640. This results in less identification of windows (pixels are quite less already in the dataset regardless of number of window instances in the dataset) as the training images are squeezed. The model successfully identifies the façade objects within the images.

## Results

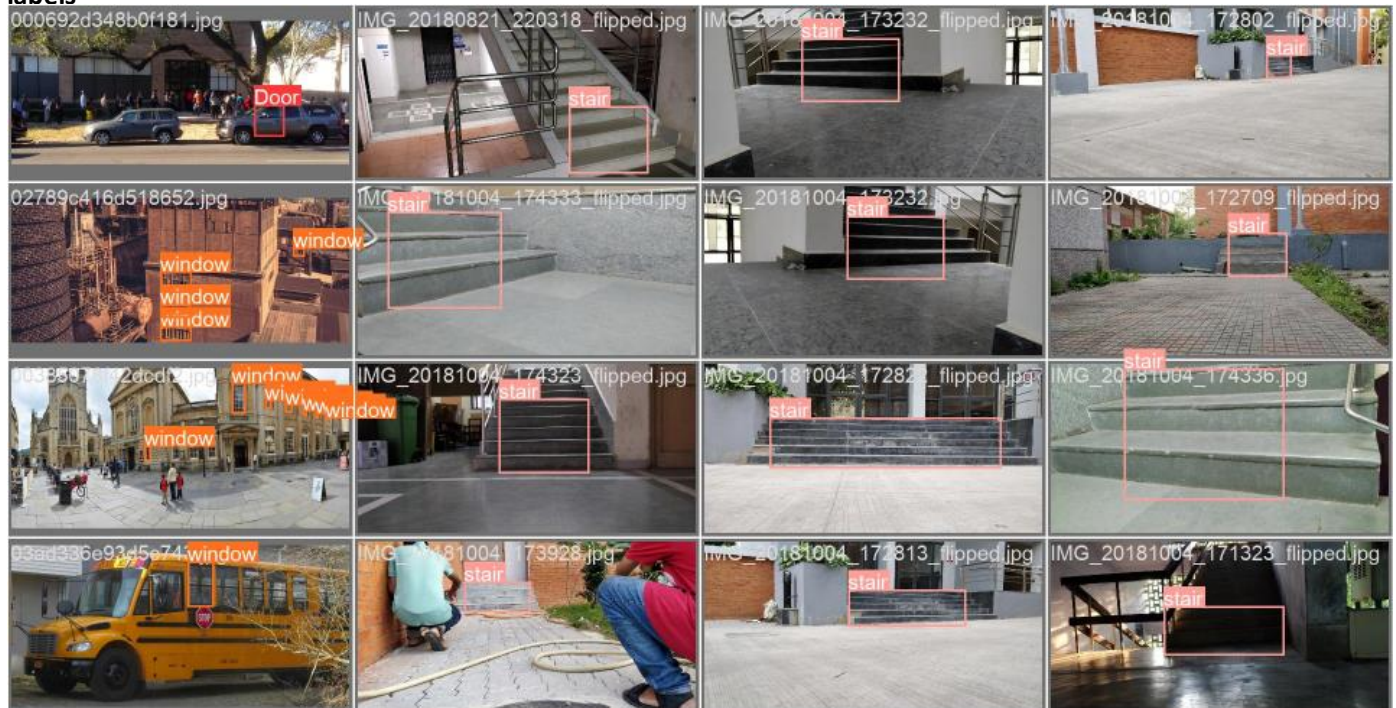




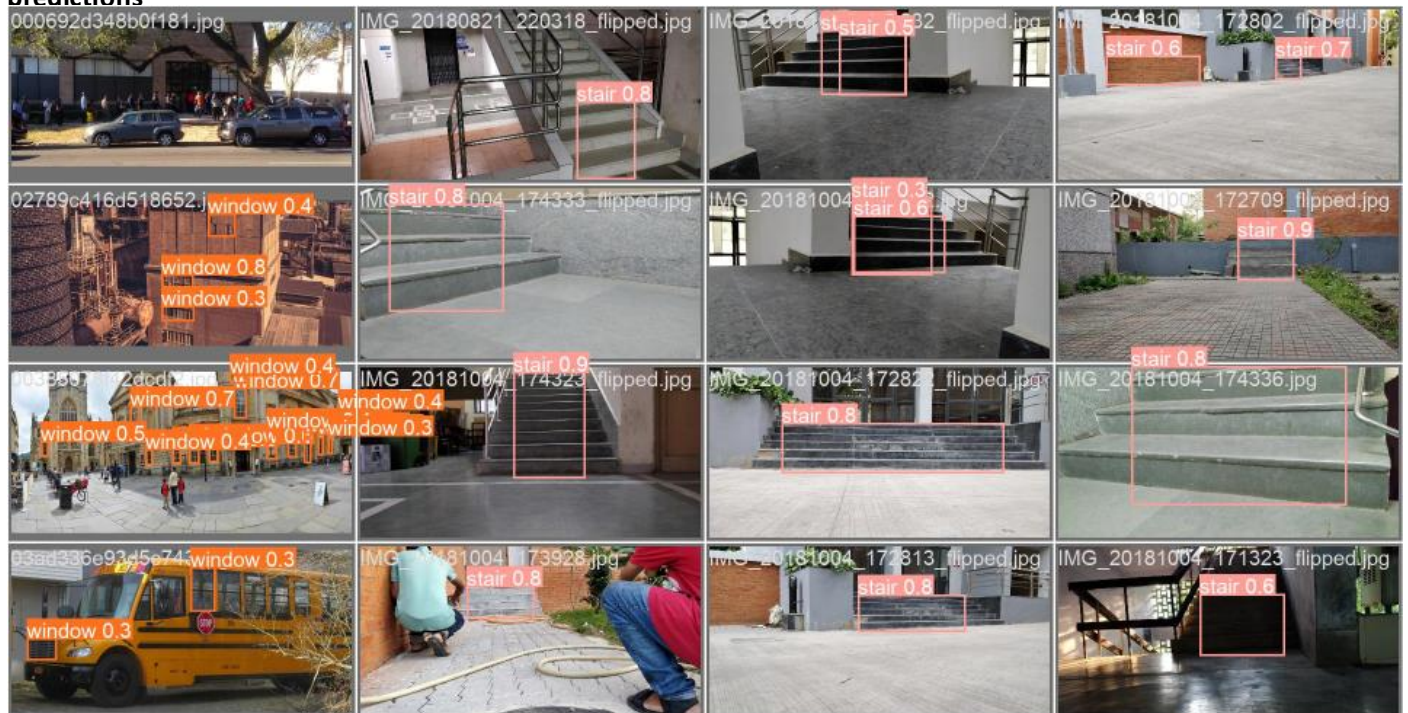


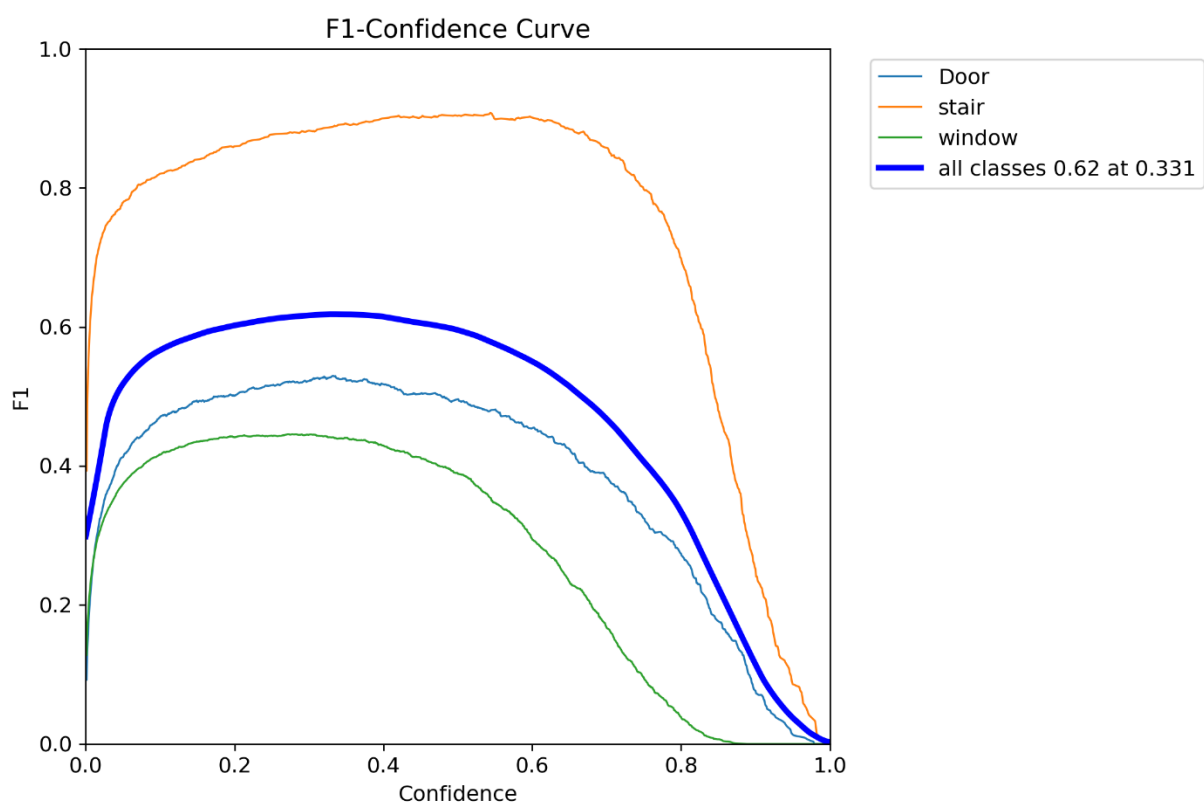
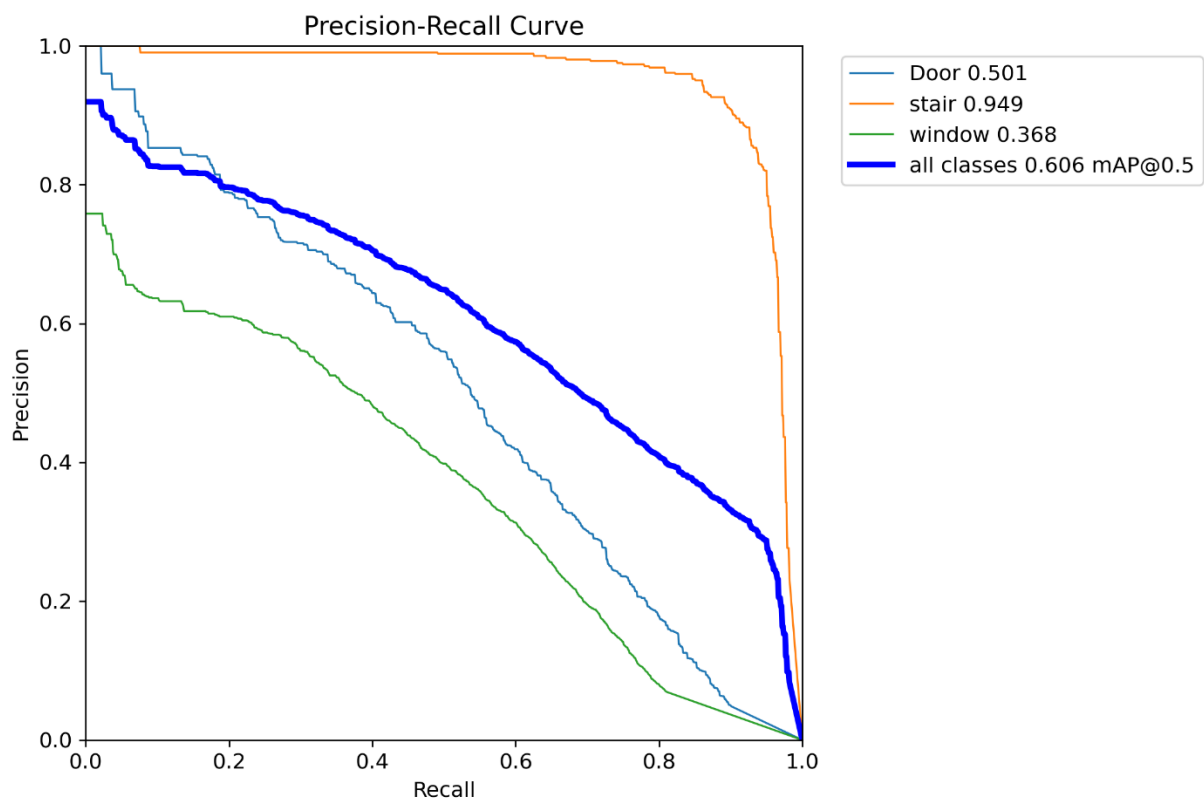


## labels

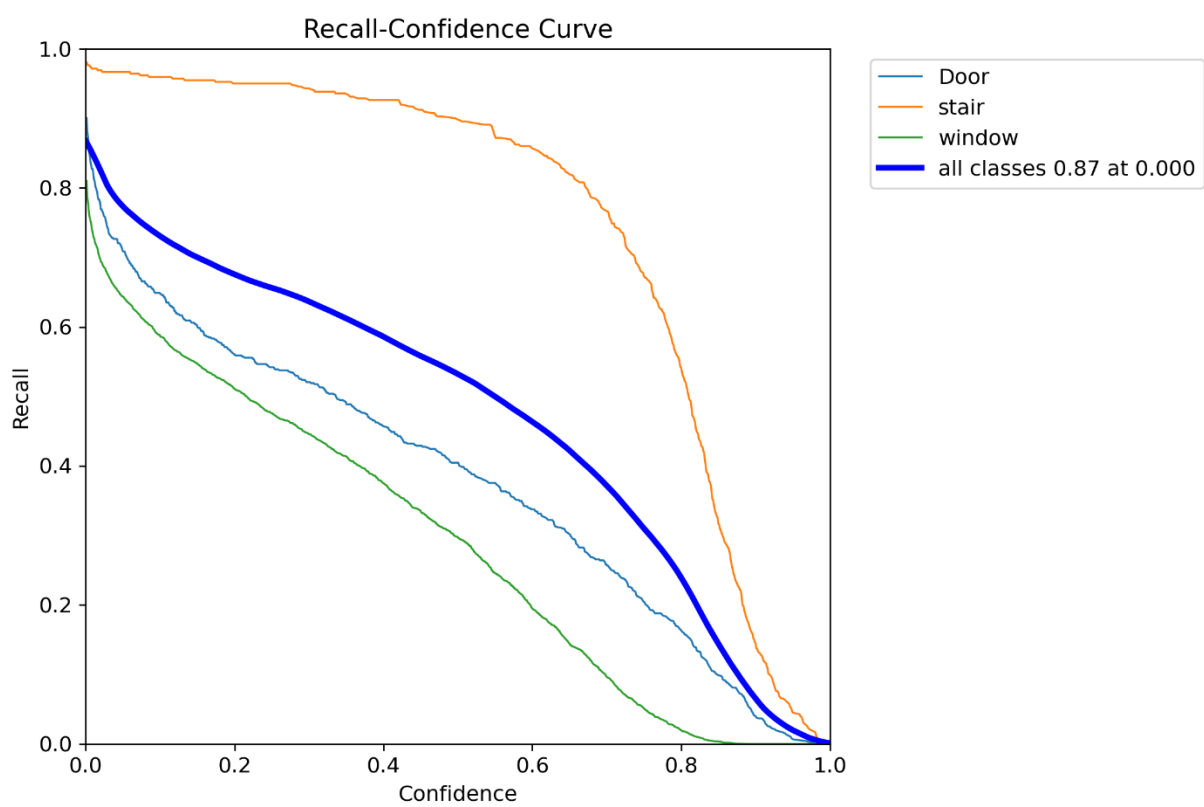
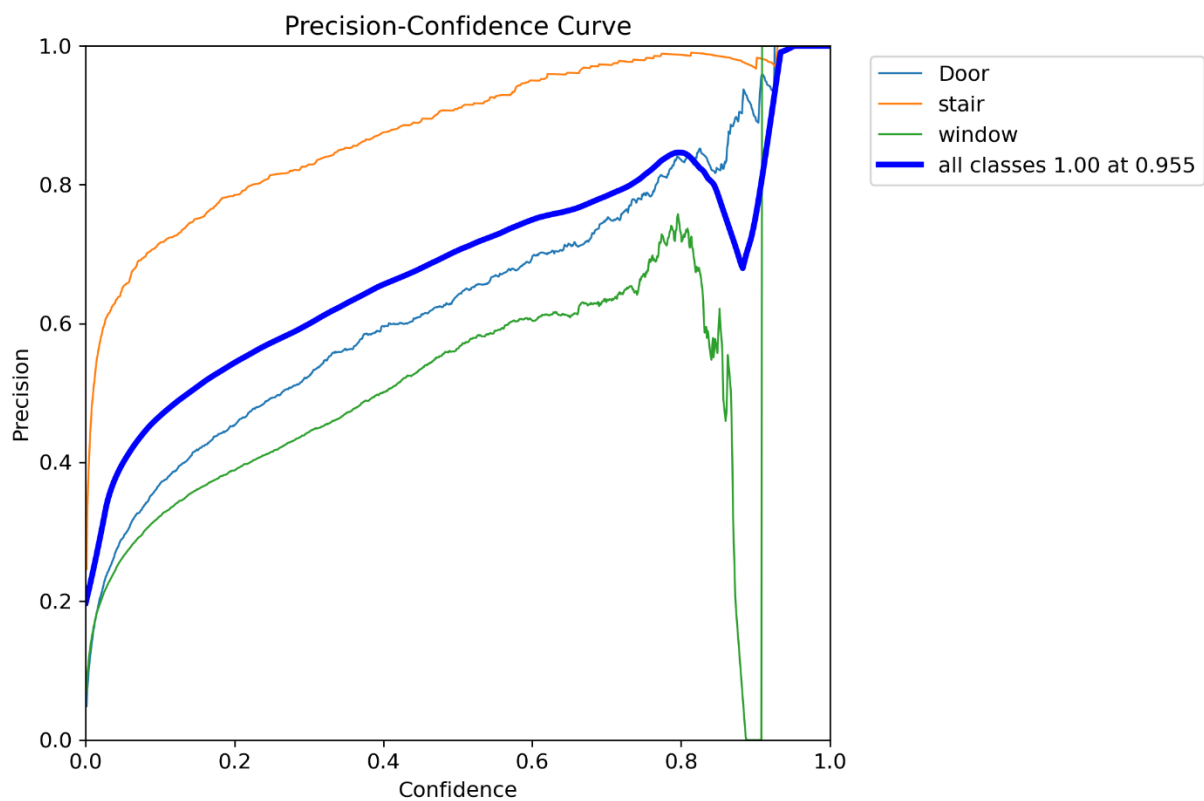


## predictions









Custom images results: -

Image-1





Prediction: -



Image-2: -





**Prediction: -**



**Image-3: -**



Prediction: -



Image-4: -





Prediction: -

